# Basic Damage Assessment / Windshield Survey and Communications Training July 21, 2012 0900-1200

- Washington Disasters
- Damages Assessment Training
- Windshield Survey



Emergency Preparedness Website www.mercergov.org/emergencyprep

### Disasters that can effect our area.

- Disasters are relatively unexpected, emergency personnel may be overwhelmed, lives, health, and the environment are endangered.
- Disasters consist of Natural, Manmade, Technological.

**Natural:** Earthquakes, winter storms, landslides, Seiche, volcanoes, flooding, (pandemics), power outages.

**Manmade:** Terrorist attacks, hazardous material spills, large scale accidents,





# BE PREPARED TO TAKE CARE OF YOURSELF, YOUR FAMILY FOR 7 DAYS

### Prepare before a disaster: 7 days (House Kit, Car Kit, Work Kit)

Know where your water shut off is, how to turn off your gas, circuit box and most of all – Know your neighbors!

Mercer Island <a href="https://www.mercergov.org/emergencyprep">www.mercergov.org/emergencyprep</a>

### Take safety precautions during a disaster.

### **Drop/ Cover/ Hold**

### Take care of yourself, family, home and Pets.

Dress for safety: Heavy soled shoes, leather gloves, hard hat, flashlight.

If you smell gas shut off gas. (make sure you have a wrench, know how and where the meter is at)

Turn off electrical at circuit box

Shut off water at main house valve or at main valve at street

Call out of state contact to check on family members if phone systems are disrupted locally.

Tune into KIRO radio station (KIRO 710AM) or MIHS Radio station 88.9FM with battery operated radio for info.

Check on neighbors to see if OK

If willing, volunteer at your city to assist those in need. (206-275-7600 – EOC Phone Number)

if you are off Island, have you planned for someone to take care of your kids/family if you can't get back on the Island?

Kit in your house, car, workplace?

Wrench on gas meter? Know how to turn off your utilities, water?

Fire Extinguishers in house? Smoke detectors working?

### Currently One shelter site, the community center at Mercer View 8236 SE 24th

Faith community may assist with additional warming / cooling areas – signs will be posted at intersections for further information.

Damage Assessment Team: Don Cole and Steve Bryan

Inspectors – Don Cole Windshield Survey – George Steirer Damage Assessment Volunteer Lead – John Nielsen



# **Puget Sound Geology**

- Glaciers came and went
- Compacting soils as the glacier came down from BC
- At one point the glaciers were 3000 feet high at Mercer Island

Landslides: Investigation and Mitigation



and geologic settings. Rock falls, soil slides, and rock slides from steep slopes, involving relatives thin or shallow disaggregated soils or rock, or both. have been the most abundant types of landslide triggered by historical earthquakes. "" and 4-12). Earth spreads, earth slumps. slides, and earth avalanches on genner also been very abundant in earth search 1984).

For 40 historic earthquakes, K...... termined the maximum distance from epicentes to landslides as a function of magnitude for three general landslide types (Figure 4-13). Using the expected farthest limits of landsliding during—

### FIGURE 4-11

Rock slide-avalanche onto Sherman Glacier triggered by March 1964 Alaska earthquake: Sherman Glacier on August 26, 1963, showing conditions before earthquake (Post 1967)

### FIGURE 4-12 (bottom left)

Rock slide-avalanche onto Sherman Glacier triggered by March 1964 Alaska earthquake: collapse of Shattered Peak in middle distance formed avalanche (Post 1967)



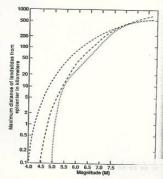


FIGURE 4-13 (above)
Maximum distance to landslides from
for earthquakes of different magnitudes
disrupted falls and slides; ——, bound for coherent
slides; ..., bound for spreads and flows (Keefer

## **Puget Sound Geology**

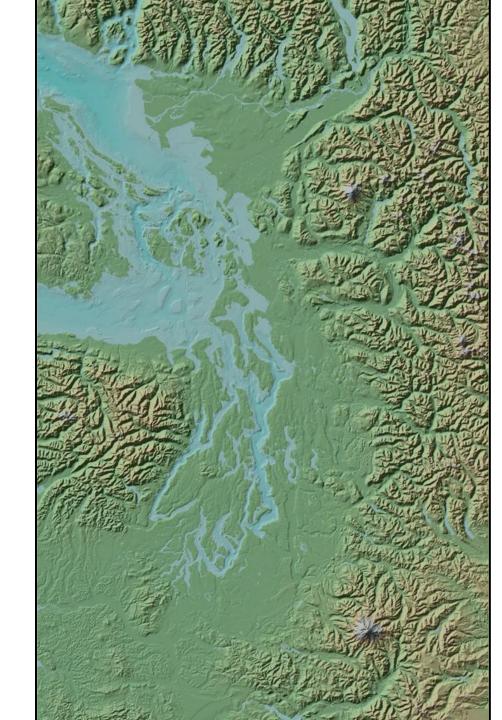
 Leaving looser soils as the glacier receded



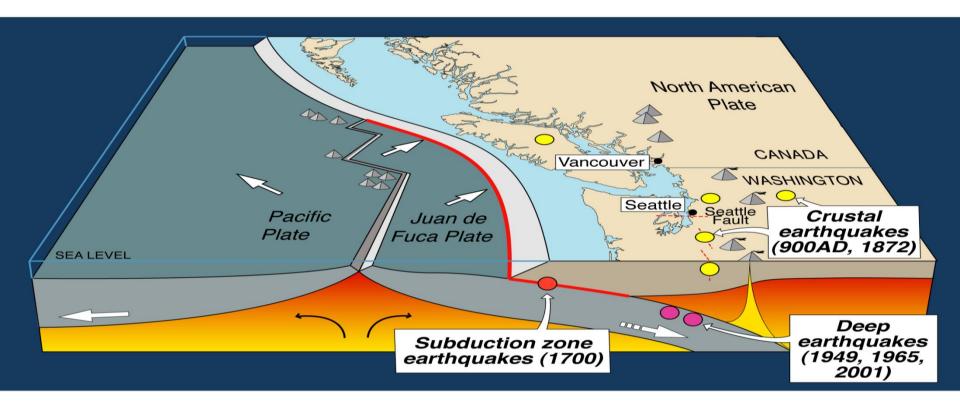
# Geologic Setting

What glaciers have created are the potential for:

- Earthquakes
- Active volcanoes
- Bedrock basins and loose soils
- Active faulting



### Cascadia earthquake sources



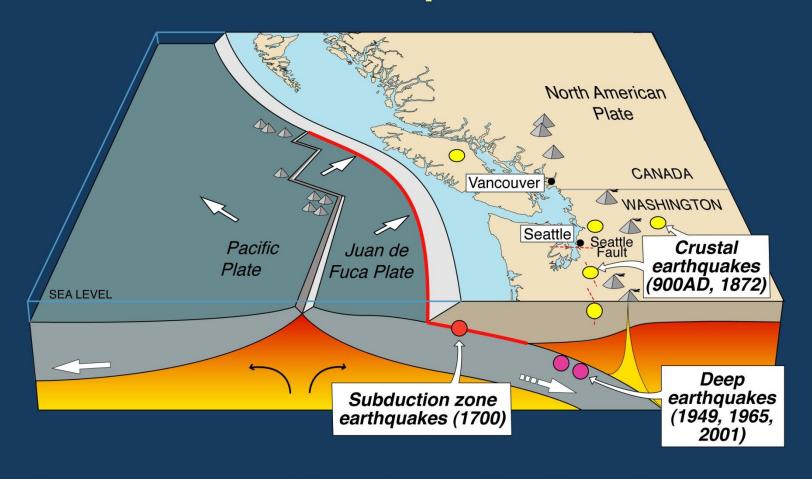
An Earthquake is a sudden slipping or movement of a portion of the Earth's crust, caused by a sudden release of stresses, usually less than 25 miles below the surface.

**Subduction Zone** (Cascadia) - (Juan de Fuca Plate diving under the North American Plate) Mega Quakes (like Chile) happens approx. every 300 years. Last one struck in 1700

**Deep** (**Juan de Fuca Plate**) – Happens every 30 -50 years (1949, 1965, 2001)

Crustal Faults (Seattle Fault Zone )— (900 AD, 1872)

### Cascadia earthquake sources



Source	Affected area N	/lax.Size	Recurrence
Subduction Zone	W. WA, OR, CA	M 9	500-600 yr
Deep JdF plate	W. WA, OR	M 7	30-50 yr
Crustal faults	WA, OR, CA	M 7?	?

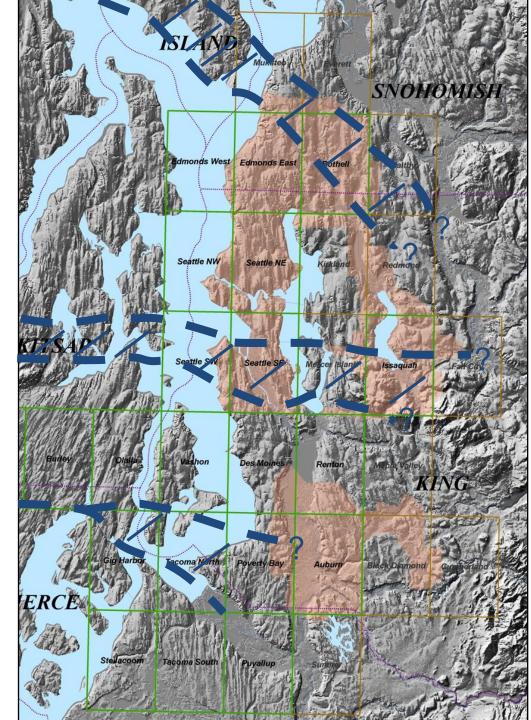
South Whidbey Island Fault Zone

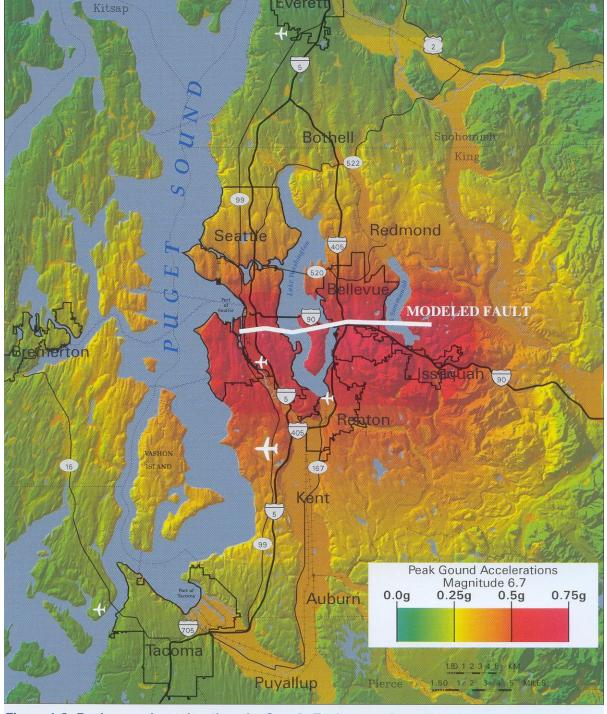
# Active faults in the Puget Lowland

**Seattle Fault Zone** 

**Tacoma Fault Zone** 

Puget Sound has thousands of small quakes every year! (< M3)





### **Peak Ground Accelerations** Map

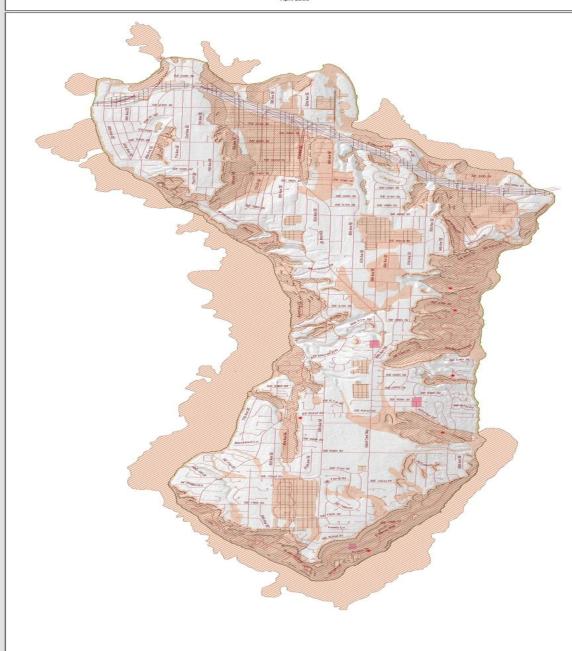
Figure 1-0: Peak ground accelerations for Coattle Fault connario carthquake using soils man

### MI Seismic map

- Identifies soils prone to liquefaction, lateral spreading, ground settlement, earthquake induced landslides, etc.
- Current use of identified areas:
  - Town Center
  - Primary transportation routes
  - Schools
  - City hall

### **Mercer Island Seismic Hazard Assessment**

by Kathy G. Troost & Aaron P. Wisher





### SEISMIC HAZARD AREAS (MICC 19.16.010)

Seismic Hazard areas are those areas subject to severe risk of damage as a result of earthquake -induced ground shaking, slope failure, settlement, soil liquefaction or surface faulting.

Seismic
Hazard
Seismic Hazard Area (Known or Suspect)
For all other areas risk is unknown or limited to ground shaking

Seismically Hazardous Areas Data

Potential for seismically induced ground failures including settlement, cracking, lateral spreading, liquefaction due to ground shaking.

Seismically hazardous areas include the following:

High Potential for seismically induced ground failures
(Poorly consolidated, see note below)

Moderate Potential for seismically induced ground failures
(Moderate) consolidated, see note below)

Landslide and Mass Wastage Deposits (subaerial & subaqueous)

Modified land

Modified land

Miscellaneous Ground Effects of the 2001 Nisqually Earthquake (Approx. Area)

Ground Settlsment from the 1965 Earthquake

Effects

Miscellaneous Ground Effects of the 1949 Earthquake

(Approx. Area)

ACTIVE FAULTS

Deformation Front

Vasa Park fault

Newcaette Hills Fault

Mercer Island falls within the Seattle fault zone and at least two stands of the Seattle fault cross the island. No direct evidence of surface fault rupture has yet been documented for Mercer Island (Troost and Wisher, 2006).

The Seattle Faut Zone is the area where several parafel strands of the Seattle fault have either broken the ground surface or caused deformation of geologic materials. Earthquakes of magnitude M7 or greater have occurred on some of these fault strands within the Holcome (last 10,000 years) and will likely occur again (Blakely, at al., 2002, Sherod 2002, 2005). The Seattle Fault Zone is one of several active crustal faults zone in the Poget Lowland currently undergoing research.

On Mercer laters, evidence for movement along these faut etransic consists of exposures of deformed sedementary strata and geophysical images of folded and fauthet strate; if moved and Wisher, 2006. Stephenson et al., 2007). Elsewhere in the Puget Sound lowland, evidence for movement on the faut stratad consists of upliffed beach deposits, down-dropped tidal marshes, offset strats, foul states, stratad consists of upliffed beach deposits, down-dropped tidal marshes, offset strats, foul states, and stratage of the stratage of the stratage of the states of the stratage of the stratage

East of Mercer Island, the Vasa Park fault and Newcastle Hills fault each have surface expression in the torm of fault scarps and subsurface expression in the torm of magnetic and selamic linear continuous with similar features to the west of Lake Washington, but those continuous with similar features to the west of Lake Washington, but those continuous with similar features to the west of Lake Washington. but those continuous with similar features to the west of Lake Washington. The second continuous community and practice of the second continuous community and practice of the second continuous co

The Deformation Front is an east-west-trending, convex-upward fold in geologic strata, where those strata drape over the northern-most thrust fault in the Seattle Faul Zone. North of the Deformation down toward the north beneath the Seattle Light (Frant, 2009). The location of the Deformation Front was moved northward from previous interpretations (Brocher, et al. 2004) following detailed evaluation of selection in the Port and Color of the Port and Color of the Seattle Sea

### Notes: Degree of consolidation

Geologic materials were assessed then classified as either strongly, moderately, or poorly consolidated millstrong. Because considerable variability exists within each geologic unit, more detailed analysis is needed for stee-specific evaluations or to evaluate the degree of consolidation at a israper scale than provided. Slope and degree of statistical analysis is needed for stee-specific evaluations or to evaluate the degree of consolidation at a integer scale than provided. Slope and degree of statistical association and the statistical analysis is consolidation. The statistical analysis is consolidation at a size-specific package and the statistical analysis of the stand as a while. These data should not be used for purposes of site-specific land-use planning or site-specific geologic evaluations. The classification shown on the map does not account for the built environment and impervious surfaces.

### GENERAL NOTES FOR GEOLOGICAL HAZARDS MAPS

This map is one of a suite of revised Geological Hazard Maps for the City of Mercer Island. This suite includes maps showing Seismic Hazards, Landslide Hazards, and Erosion Hazards.

Other geological and/or natural hazards may exist and geological events may occur on Mercer Island that are not specifically identified on these maps. Examples of geologic hazards and hazardous events Washindiodentified on these maps include, but are not similate to, issuamis and asches in Lake Washindiot.

These maps are for the colouse of the staff of the City of Merce Island's Development Services Group

800 on a purpose of the mine policition was after. There maps no one of colouse are
assessment of known or suspect geological hazard areas for which the City will require site and
assessment of known or suspect geological hazard areas for which the City will require site and
project-specific evaluation by a Washington State-licensed engineer, geologist or engineering geologist
prior to issuing a permit for site development. All areas have not been specifically evaluated for
the staff of the staff

The City of Mercer Island is using guidance provided by the State of Washington regarding the definition of geologically hazardous areas in accordance with WAC 305-190-090 and the Growth of the control of the control

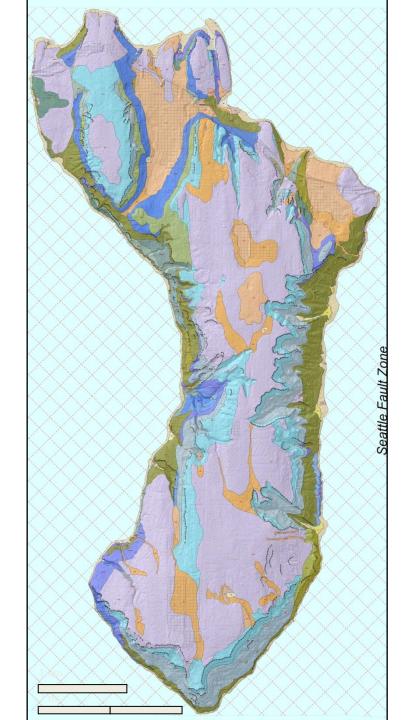
This new set of maps represents an update of the 2002 Geologic Hazard Map Series and is based on a review of Best Available Science for the Seattle Fault and retated events, a new Geological Map of Geological Wat of the Series of the Series

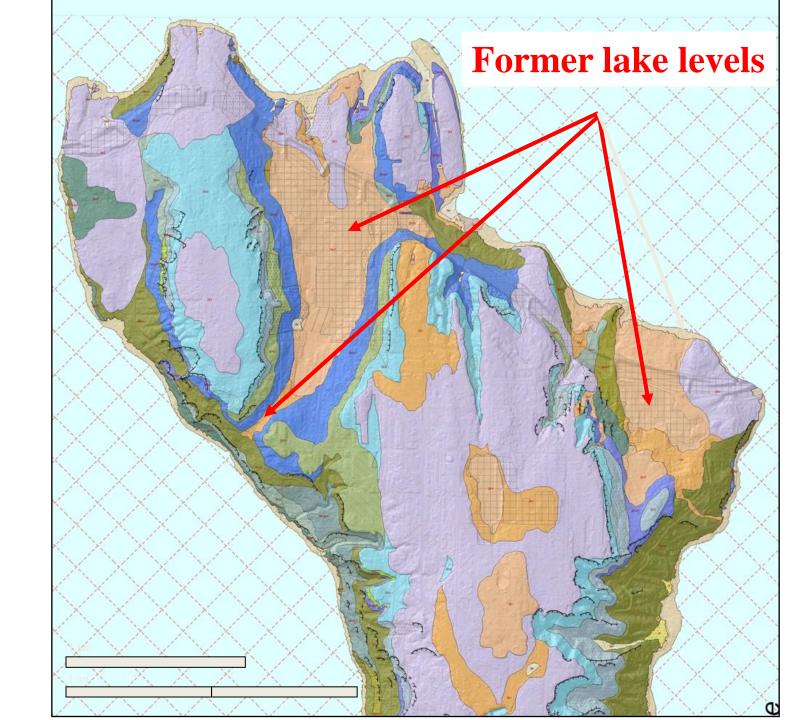


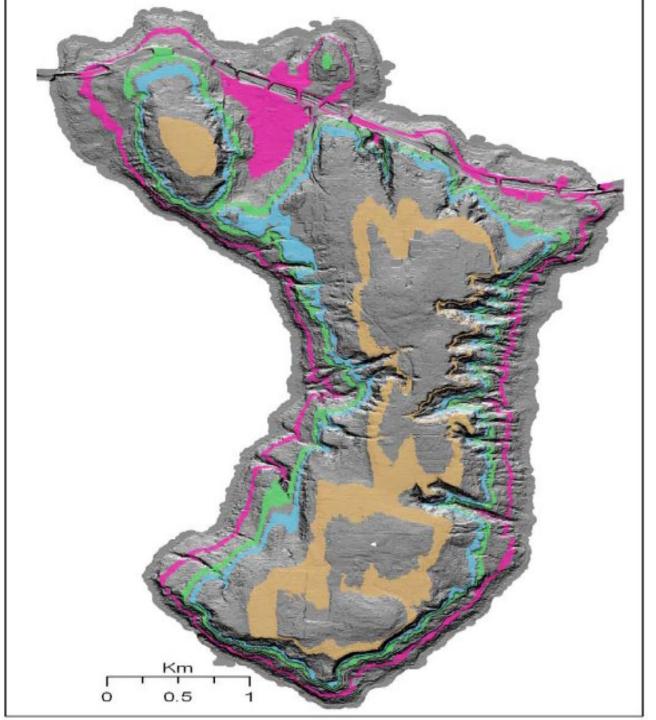
### Significant Changes

### Seattle fault zone added:

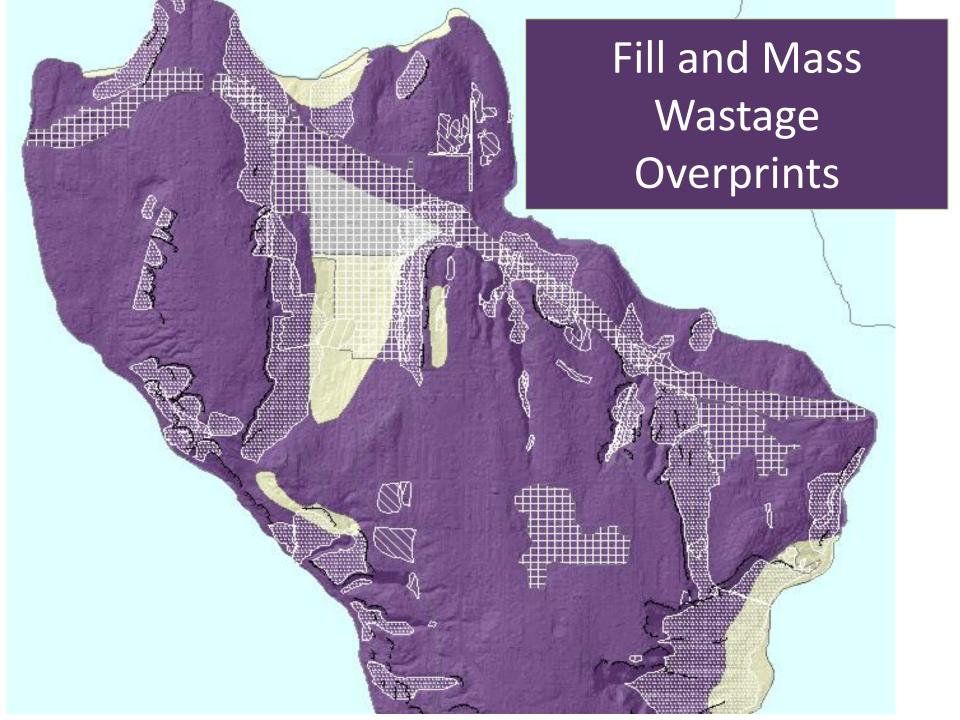
More areas of weak ground
More areas of sandy ground
Former lake beds identified
Fill mapped as overprint
Mass wastage mapped as overprint







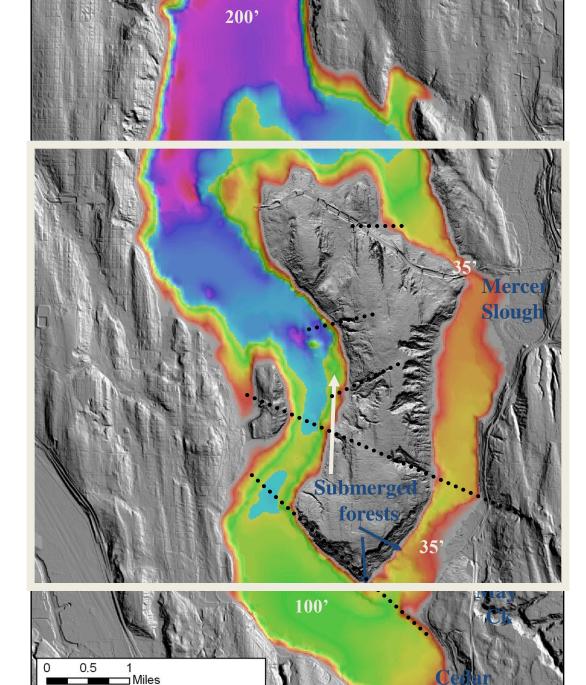
Each color represents a former lake shoreline line level with loose deposits. The pink was the most recent (not compacted by glacier). Note the proximity with development and transportation features.



# Lake WA Bathymetry & Seismic Data

Submerged forests may
have been caused by
Earthquake induced
landslides 1000 years ago

Ground shaking can bring marginally stable slopes to sudden failure.



Kilometers

### Mercer Island Geology

- Typical Mercer Island hillside soil profile:
  - Very dense silt, sand and gravel (till or hardpan) over very dense sand (advanced outwash) over hard silt and clay (Older Clay)
  - Water sits on top of the clay and exits out of the slope
  - Perfect for landslide conditions

### Landslide Stats

- 62% are shallow colluvial slides (debris flows).
- 18% are deep-seated slides
- ¾ of slides have human related causes (uncontrolled drainage, uncontrolled fill)
- Nearly all slides are water related
- January is top month
- Landslide watch predictors

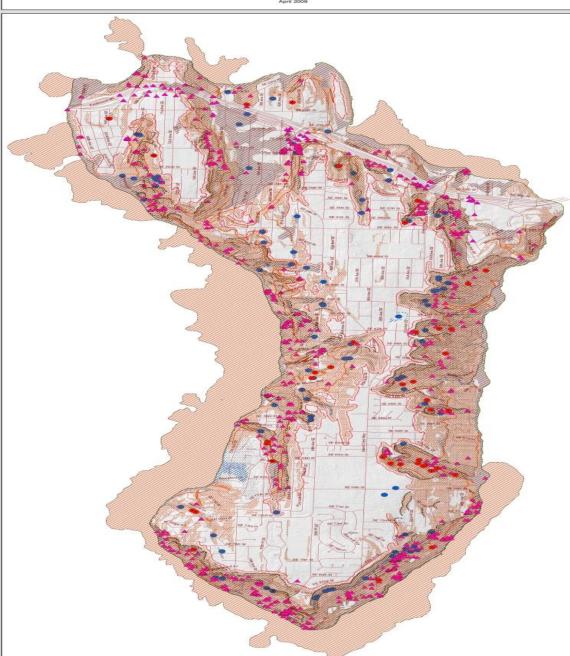
# Landslide predictors

Geologic Landslide hazard map

Rainfall monitoring

### Mercer Island Landslide Hazard Assessment

by Kathy G. Troos & Aaron P. Wisher





LANDSLIDE HAZARD AREAS (WAC 365-190-080 4d and MICC 19.16.010)

Landalide hazard areas include areas potentially a ubject to landalides based on a combination of geologic, topographic, and hydologic factors. They include areas susceptible because of any combination of bedrock, soil, slope (gradient), slope aspect, structure, hydrology, or other factors.

- . Areas of historic failure or that have been documented on published maps; See mapped known
- Cardisates below.

  In the second of the seco a. Stoppes steeper tran 15th, meracting a geologic contact of relativery permisentic deposits over side areas below.

  iii. Areas that have shown movement during the follogine epoch deat 10,000 years) or which are because the stoppes for the steeper of the stee

### Landslide hazard areas include the following mapped areas:

Landside Hazard Area (Known or Suspect) .... Landsäde Hazard Assessment Setback

### For all other areas hazard is unknown or unquantified

### Supplemental Data

Landslide

Identified Landslide Location Scarp Landslide and Mass Wasting Deposits; subaerial and subaqueous Slope 80% and higher Slope 15% and higher, and Geologic contact of coarse-grained deposits over fine-grained deposits where slope >= 15%, and Potential Area where water less than 10 feet below ground surface based on limited data set (other areas of shallow water present), or Spring Locations, or - - - Spring lines. Areas of Rapid Stream Incision

### GENERAL NOTES FOR GEOLOGICAL HAZARDS MAPS

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These maps are for the sole use of the staff of the City of Mercer Island's Development Services Group (DSG) for the purposes of permit application evaluation. These maps provide DSG staff a general project-specific evaluation by a Washington State-Icensed engineer, genelogist or rangineering geologist provides the project-specific evaluation by a Washington State-Icensed engineer, genelogist or rangineering geologist provides the property of the second of the property of the second of the property of the second of the property of individual property owners and map users to evaluate the fisk associated with their proposed development. No site-specific assessment of risk is implied or otherwise indicated by the City of Mercer Island by the see maps.

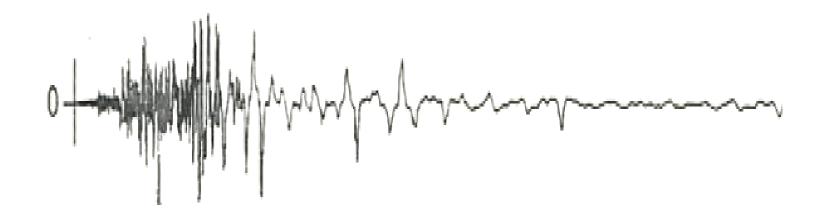
The City of Mercer Island is using guidance provided by the State of Washington regarding the definition of geologically hazardous areas in accordance with WAC 3505-150-260 and the Growth crossion, sliding, earthquake, or other geological events. They pose a threat to the health and safety of citizens when incompatible commercial, residential, or industrial development is sized in areas of significant hazard."

This new set of maps regresents an update of the 2002 Geologic Hazard Map, Series and its based on a review of Beat Available Scheme for the Seattle Faut and related events, a new Geological Map of Mercer Island by Troost and Wather (2006), and a geologic database of Mercer Island compiled by Geological Visit the University of Washington, Information about data used for the maps, references, accordance of the Companies of t



# Liquefaction

- What is liquefaction?
  - It's what happens to a saturated loose sand when it's shaken by a vibrational load like an earthquake—turns to quicksand or liquefies
  - Soil looses strength



## Liquefaction (Cont.)

- Conditions conducive to liquefaction:
  - Loose sand (beach deposits, river deposits, hydraulic fill) with shallow groundwater
- Consequences of liquefaction:
  - Settlement
  - Landsliding or lateral spreading

# Assessing a Landslide

- View from safe distance to the side of slide
- Tension cracks indicate pending soil movement
- Is soil wet and/or soft?
- Are there target structures below the slide
- Red tag unless confident that structure will not be involved

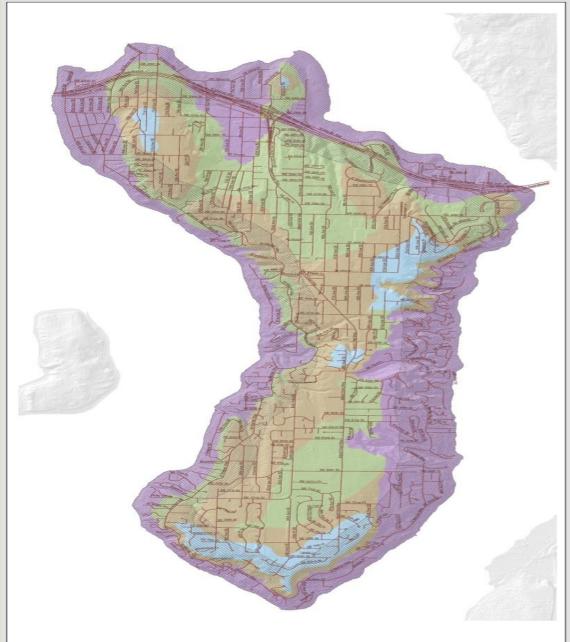


## Windstorm Susceptibility

- Downed trees caused most damage in previous storms
- No occupancy if tree jeopardizes building (buildings not designed for added weight of tree)

### Mercer Island Wind Exposure and Wind Speed-Up (Topographic Effect)

by Development Services Group (DSG), City of Mercer Island





WIND EXPOSURE CATEGORIES & WIND SPEED-UP FACTORS (ICC Section 1609 & ASCE 7-05 Chapter 6)

It is the responsibility of the Owner (or their Design Professional) to review site conditions and determine the Kxt factor to be utilized for each specific project. The Kxt accepted by the City of Mercer Island without requiring the design professional to submit additional calculations and supporting topographic documentation (to verify the values utilized in their wind load determination).

Please note – The Kzt values indicated on this map are approximations based upon periodic calculations of representative samplings around Mercer Island. These values are intended for City of Mercer Island's plan review purposes only.



K<sub>t</sub> Factor



### WIND SPEED-UP (TOPOGRAPHIC EFFECT) - K,t Factor :



### GENERAL NOTES FOR WIND EXPOSURE AND WIND SPEED JP MAP

This map is the Wind Exposure Category and Wind Speed-up (Topographic Effects) Map for the City of Mercer island. This map shows the minimum wind exposure category and the minimum wind speed-up, "K,r" factor, which will be accepted without site specific documents fron and calculation.

Other wind speed phenomena may occur on Mercer Island that is not specifically indentified on this map. It is the responsibility of the Council of the Edward Professionals to review she conditions and determine the appropriate design wind speed and exposure category for their specific project and location.

This map is for the cabs use of the staff of the City of Marcan Island's Development Services Orcopy (DISO ) for the purposes of permit application evaluation. This map provides DISO staff a general assessment of Wind Exposure Category and Wind Speed-up (Topographic Effects). All areas have not been specifically evaluated and their may be localized that their ordinary of evaluate risk associated with their proposed development. No site-specific assessment of risk is implied or otherwise indicated by the City of Marcor Island with his map.

mation about data used for the map, references, and data limitation are all described the ciated "Read Me" document. The digital version of this map is accompanied by a meta data or drairing pertinent information about map construction. This data map is available on the file containing pertinent inform City of Mercer Island website.

The City of Mercer Island is using guidance provided within ICC Section 1609 & ASCE 7-05 Chapter 6 regarding definitions used when creating this map.

The topographic effect of wind speed-up at isolated hills, ridges, and escarpments constituting abrupt changes in the general topography, located in any exposure category, that meet all of the conditions noted in ASCE, 7-05 Minimum Design Loads for Buildings and Other Structures, Section 6.5.7.

Exposure B: The wind exposure category that applies where the site in question is located a minimum of 1500 feet from the shoreline and the mean roof height is less than or equal to 30 feet per ISC 2006 section 1500.4.3.

Exposure C: The wind exposure category that applies where the site in question is located within 1500 feet from the shoreline per IBC 2006 section 1609.4.3.

Minimum 85 mph 3-second gust per IRC Figure R301 2(4)

# **Building Susceptibility**

- Sites with earthquake induced Landslides, liquefaction, lateral spreading, direct faulting, shaking amplification
- Prior to 1975 seismic residential codes were not in place. (houses were not required to be bolted to foundation) codes were not in place for older houses on stilts, walls of glass (note – no lateral until the mid 70's)
- New Big houses w/ Open floor plans, walls of glass, <u>DESIGNED TO MINIMUM CODE</u>
- Many Essential Facilities & much of Town Center within Seismic Hazard

### Mercer Island's Problems

- Near Faults 3 types
- Susceptible Soils and Slopes
- Susceptible Construction
- On an Island with Susceptible Roads & Bridges
  - Supply lines in jeopardy
- Susceptible main water supply 7 sewage disposal

### Mercer Island's Advantages

- Volunteers & evolving Emergency response program
- Outsourcing Resources
- Emergency Well
- Code/Enforcement Improvements -2000
  - Geotechnical Design & Inspection
    - Statement of Risk
  - Structural Engineer Design & Inspection
- Low Unreinforced Masonry inventory

### **Worker Safety**

- Aftershocks!
  - Don't go in or near if susceptible to aftershocks
  - Verify adequate lateral capacity remains
    - Shearwalls intact, crack gaps still provides capacity
    - Confident with P-Delta effects
- Tools & Attire Hard hats, safety boots, etc.
- Buddy System
  - physical dangers; someone always at safe distance
  - Stress symptoms
- Don't be a mistaken Hero Stay away!
  - Broken Utilities/Power lines
  - Unstable soils or slopes
  - Animals (dogs, snakes, spiders)
  - Challenging access roads
  - Hazardous materials occupancies, chemicals, mold, CO, pathogens (keep shots up to date - Hepatitis, tetanus)
  - Take the stairs (no Elevators) & Don't close racked doors

# Right of Entry to Inspect

- Always seek permission (do not Trespass)
- Do not confront angered owner
- Can assess visibly from street or entry
- We are not enforcement authority
- Can have enforcement authority tag if required.

# Right of Entry to Inspect

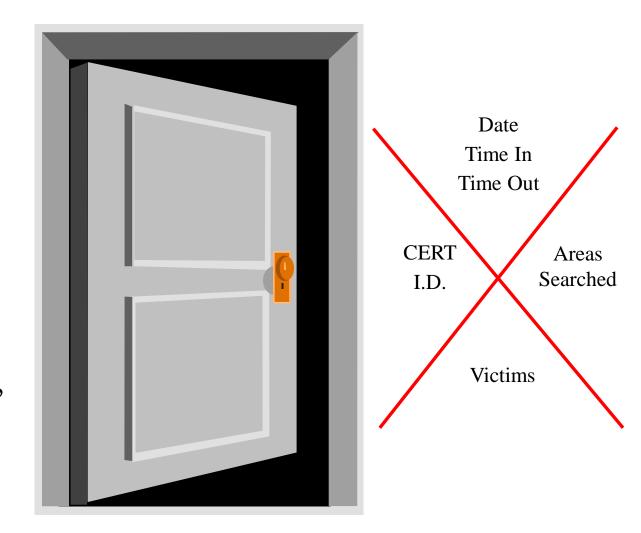
1.3 Right of Entry. When it is necessary to make an inspecon to enforce the provisions of this code, or when the building ficial or the building official's authorized representative has reanable cause to believe that there exists in a building or upon a emises a condition which is contrary to or in violation of this de which makes the building or premises unsafe, dangerous or izardous, the building official may enter the building or premises reasonable times to inspect or to perform the duties imposed by is code, provided that if such building or premises be occupied at credentials be presented to the occupant and entry requested. such building or premises be unoccupied, the building official nall first make a reasonable effort to locate the owner or other perons having charge or control of the building or premises and reuest entry. If entry is refused, the building official shall have ecourse to the remedies provided by law to secure entry.

"Authorized representative" shall include the officers named in

### **Search Markings**

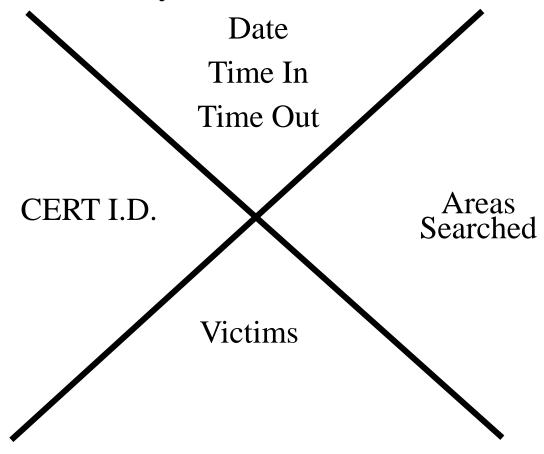
- Upon entering search area:
  - Make a slash
  - Enter info

- Upon leaving search area:
  - Complete 'X'
  - Enter info



### **Search Markings**

What information do you mark?



CERT Basic Training
Unit 5: Light Search and ₹€5cue Operations

### Damage Assessment Priorities List

### Essential Facilities

- EOC/City Hall
- Shelters
- Medical Centers

### Sensitive Populations

- Schools
- Health & Elderly Care

### Sensitive Structures

- Water Tower
- Churches
- Multistory Buildings
- Town Center

### Most Damaged Areas

### **Incident Essentials**

### ☐ Priorities in any disaster

- ☐ Life Safety
- ☐ Property
- ☐ Environment

### **Medical Tagging**

Black / white tape Dead Red tape critical injured

**Green tape** OK

### **Building Operational Status**

**Red** No Entrance to Structure - Critical

**Yellow** Limited Entrance - Critical Functional

**Green** Normal Operations – Structure OK

# Damage Assessment

Slight Damage – Green Tag



# Damage Assessment Moderate Damage – Yellow Tag

(specified areas usable only)



# Damage Assessment

Heavy Damage – Red Tag – (No Entry)



#### **Emergency Operation Center Personnel**

DSG Director Tim Stewart / Backup - DSG Section Chief Kirsten Taylor

#### **EOC Phone Bank / Data Entry Personnel**

Holly, Jodi, Analisa (phones) Ali and Linda (data entry)

### Windshield Survey Response Team Lead – George Steirer Inspector Lead – Don Cole

Damage Assessment Volunteer Lead – Steve Bryan

The goal is to do an initial drive through of your assigned area as soon and quickly as possible, reporting back to the EOC your findings.

If the Windshield Survey Response Team comes across a life threatening situation, after reporting the incident, they can assist until help arrives. Otherwise the team's goal is to assess their area as quickly as possible reporting back to the EOC their assessment.

### 12 Windshield Survey Teams each assigned to a specific area on the Island Call signs will be area designation, two people to team

Last Name	First Name	Call Signs	Cell Number	Vehicle	Radio
Afzali	Nick				
Steirer	George				
Davis	Al				
Henderson	David				
McDaniel	Brian				
McWatters	Brian				
Potterf	Mark				
Saunders	Travis				
Serfling	Jimmi				
Skidmore	Paul				
Yamashita	Patrick				
					41
	Afzali  Steirer  Davis  Henderson  McDaniel  McWatters  Potterf  Saunders  Serfling  Skidmore	Afzali  Steirer  George  Davis  Al  Henderson  David  McDaniel  Brian  McWatters  Brian  Potterf  Mark  Saunders  Travis  Serfling  Jimmi  Skidmore  Paul	Afzali Nick  Steirer George  Davis Al  Henderson David  McDaniel Brian  McWatters Brian  Potterf Mark  Saunders Travis  Serfling Jimmi  Skidmore Paul	Afzali Nick George Geor	Afzali Nick George George Google Goog

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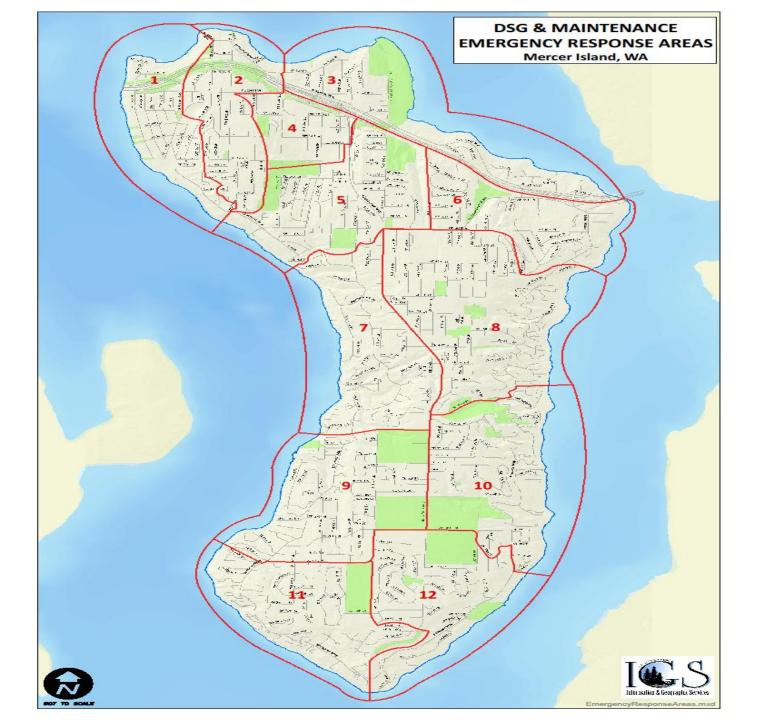
#### Inspector Lead – Don Cole

#### Damage Assessment Volunteer Lead - Steve Bryan

The goal of the Inspectors is to rapidly assess buildings, allowing evacuated occupants to re-enter inspected safe structures in a timely manner. Or if the structure is deemed unsafe allowing displaced occupants to be evacuated to a safe structure elsewhere. Reporting their findings to the EOC.

### **Inspector Team Last Name** First Name **Call Signs Cell Number** Vehicle Radio Area Inspector #1 Cole Don Inspector #2

					Date	Checked	
Area	Structure	Location	Phone #	Issue	Time	by	Pictures
	Community Center at Mercr View						
3	(CCMV)	8236 SE 24th St	(206) 275-7609				
3	Youth & Family Services	2040 84th Ave SE	(206) 236-3525				
3	Luther Burbank Park structures	2040 84th Ave SE					
3	Park & Ride	N Mercer Way & 81st Ave SE					
3	Mercer Island condos	2500 81st Ave SE					
3	77th Ave SE Landing	7670 SE 22nd St					
3	South Luther Burbank parking lot	84th Ave SE & SE 26th St					
3	Covenant Shores	9150 Fortuna Dr	(206) 268-3000				
3	Fruitland Landing	3309 97th Ave SE					
		3600 East Mercer Way (under the					
3	I-90 East boat launch	bridge)					
		Exits 7A, 7B, 7C, 8; entrances; HOV					
3	I-90 on/offramps east of lid	ramps					
3	76th Ave I-90 overpass	76th Ave SE & N Mercer Way					
3	77th Ave I-90 overpass	77th Ave SE & N Mercer Way					
3	80th Ave I-90 overpass	80th Ave SE & N Mercer Way					
3	Island Crest Way I-90 overpass	Island Crest Way & N Mercer Way					
3	"84th Ave" I-90 scenic overpass	84th Ave SE & SE 28th St					
3	Shorewood Drive overpass	Shorewood Dr & Southeast 89th Pl SE					
3	North Mercer Way overpass	N Mercer Way & SE 35th St					
3	East Mercer Way overpass	E Mercer Way & SE 35th St					
3	Nav Adult Family Home	2233 80th Ave SE	(206) 948-2209				
3	Little Acorn Sprouts Toddler	8236 SE 24th St	(206) 232-0940				
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## **Advanced Damage Assessment Training**

- Earthquake Susceptibility Overview & Mapping
- Fault scenario
- Geotechnical considerations
- Landslides Susceptibility Overview & Mapping
- Windstorm Susceptibility Overview & Mapping
- Self-preparedness
- EOC Operations
- Reporting
- Communications
- Teams
- Sectors
- Facility Inspection priority lists
- Inspection Gear
- Identification
- Equipment radio, cell phone, tools, attire, caution tape, flare:
- Forms Facility Inspection priority lists, tags, checklists, handou
- Food and health supplies
- Inspection policies
- Safety, no-risk, aftershock awareness
- Clarifying scope of inspection (applicant handouts)
- Establishing ability to inspect (permission, warrant, etc.)
- Public Interaction and the Public Duty Doctrine
- Forms & Recordkeeping
- Hazard Inspection Checklists
- Tagging system
- FEMA Damage Forms
- Recordkeeping
- Building Assessment Procedure, building types, and Examples for consistent Tagging
- Recovery & Aftershocks
- Records & Reports FEMA
- Permitting & Consultants





## **Good Samaritan Law**

- Legal protection with conditions:
  - Work within scope of assigned duties
  - Not under the influence of drugs/alcohol
  - Valid drivers license and insurance
  - Follow laws (traffic, etc.)

### Legal Coverage for Emergency Workers WAC 118-04-200

#### Personal responsibilities of emergency workers.

- (1) Emergency workers shall be responsible to certify to the authorized officials registering them and using their services that they are aware of and will comply with all applicable responsibilities and requirements set forth in these rules.
  - (a) Emergency workers have the responsibility to notify the on-scene authorized official if they have been using any medical prescription or other drug that has the potential to render them impaired, unfit, or unable to carry out their emergency assignment.
  - (b) Participation by emergency workers in any mission, training event, or other authorized activity while under the influence of or while using narcotics or any illegal controlled substance is prohibited.
  - (c) Participation by emergency workers in any mission, training event, or other authorized activity while under the influence of alcohol is prohibited.
  - (d) Emergency workers participating in any mission, training event, or other authorized activity shall possess a valid operator's license if they are assigned to operate vehicles, vessels, or aircraft during the mission unless specifically directed otherwise by an authorized official in accordance with RCW 38.52.180. All emergency workers driving vehicles to or from a mission must possess a valid driver's license and required insurance.
  - (e) Use of private vehicles, vessels, boats, or aircraft by emergency workers in any mission, training event, or other authorized activity without liability insurance required by chapter <u>46.29</u> RCW is prohibited unless specifically directed otherwise by an authorized official in accordance with RCW <u>38.52.180</u>.
  - (f) Emergency workers shall adhere to all applicable traffic regulations during any mission, training event, or other authorized activity. This provision does not apply to individuals who have completed the emergency vehicle operator course or the emergency vehicle accident prevention course and who are duly authorized under state law to use special driving skills and equipment and who do so at the direction of an authorized official.
  - (2) Emergency workers have the responsibility to comply with all other requirements as determined by the authorized official using their services.
  - (3) When reporting to the scene, emergency workers have the responsibility to inform the on-scene authorized official whether they are mentally and physically fit for their assigned duties. Emergency workers reporting as not fit for currently assigned duties may request a less demanding assignment that is appropriate to their current capabilities.
  - (4) Emergency workers have the responsibility to check in with the appropriate on-scene official and to complete all required recordkeeping and reporting.

## 15 Volunteer Teams



- Medical
- Search & Rescue
- Child Care
- Animal Shelter
- Damage Assessment
- Transportation
- Administration
- Faith Community

- Sheltering
- Mental Health
- Senior Care
- Well Operations
- Ham Radio/ Communications
- Resources
- Business Liaison

**Mercer Island Volunteer Training** 

**Community Emergency Response Teams** 

### **CERT Training**

with Mercer Island Additions

206-275-7905 or <a href="mailto:jennifer.franklin@mercergov.org">jennifer.franklin@mercergov.org</a>

www.mercergov.org/emergencyprep

#### **2012 Volunteer Training Schedule**

Saturday March 17, 2012	*Basic Disaster Prep	0900-1200	Council Chambers
Saturday April 14, 2012	Well operation	0900-1200	Well site 4320 88th
Saturday May 19, 2012	* CERT Org./ Communications	0900-1200	Council Chambers
Saturday June 16, 2012	*Disaster First Aid	0900-1200	Council Chambers
Saturday July 21, 2012	Damage Assessment	0900-1200	Council Chambers
Saturday August 18, 2012	*Search & Rescue	0900-1200	North Fire Station
Saturday October 20, 2012	*Fire Suppression Training	0900-1200	Council Chambers
Saturday November 17, 2012	*Disaster Mental Health	0900-1200	Council Chambers
Saturday December 15, 2012	*Terrorism Response Training	0900-1200	Council Chambers
Saturday January 19, 2013	*Final Test / Graduation	0900-1200	Council Chambers
February 2013	Red Cross Shelter Class		

<sup>\*</sup> Denotes Class needed for CERT Certification, other classes are optional and specific to MI.